

Alkoxysilane containing coating compositions

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Cited documents:

 US4640868 (A)
 EP0498442 (A1)
 US4625012 (A)

Abstract of EP 1006132 (A1)

Lacquer preparations in which the solid lacquer contains 40-100 wt.% specified alkoxysilyl-functional polyisocyanate-polyurea are new. The lacquer preparations in which the solid lacquer contains 40-100 wt.% alkoxysilyl-functional polyisocyanate-polyurea are prepared from: (A) a polyisocyanate (mixture) containing at least 50 wt.% of 4,4-diisocyanateodicyclohexylmethane polyisocyanates, having a mean NCO-functionality of 2.5-5.5, an isocyanate group content of 11.0-20.0 wt.%, and a diisocyanate monomer content of less than 10 wt.%; (B) at least 0.7 equivalents (with respect to isocyanate groups) of aminosilanes of formula (I): (RO)_nY(3-n)Si-CH₂CH₂CH₂-NHZ (I) where: R = Me, or Et; Y = Me; Z = H, 1-12C alkyl, CH₂CH₂CH₂-Si(RO)_nY(3-n); n = 1-3; and (C) optional other compounds reactive to isocyanate groups.; Independent claims are included for: (1) lacquer preparations containing 20-50 wt.% on the solid lacquer of silane of formula (II): QSi(OR)₃ (II) where: X = Me, Et, isopropyl, Bu; Q = H, 1-8C alkyl, phenyl, methoxy, ethoxy, 3-glycidyoxy-propyl or a hydrolyzate/condensate obtained from it; (2) a lacquer preparation based on (A) to (C) above consisting of a sol-gel lacquer system.

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